



**RY-003-001642**

Seat No. \_\_\_\_\_

**Third Year B. Sc. (Sem. VI) (CBCS) Examination**

**March - 2019**

**Z - 602 : Physiology, Histology & Microtechniques**  
*(Old Course)*

**Faculty Code : 003**

**Subject Code : 001642**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- Instructions :** (1) Draw neat and labeled diagram wherever necessary.
- (2) Numbers to the right side indicate full marks of the questions.

**1** Give the answer of following questions : **20**

- (1) Corpuscles which are combined with potassium are carriers of \_\_\_\_\_
- (2) How many percentage of CO<sub>2</sub> transport in the form of carb-amino compounds?
- (3) At which point blood pressure considered high?
- (4) Which chemicals are present in Bouin's fluid?
- (5) Which component transport gases (Write any 3)?
- (6) Androgen are known as \_\_\_\_\_
- (7) \_\_\_\_\_ hormone is secreted by adrenal medulla.
- (8) Which immunoglobulin is most abundant in body?
- (9) Which nutritive cells found in seminiferous tubules?
- (10) During muscle contraction Ca<sup>++</sup>ions bind with \_\_\_\_\_
- (11) The formation of blood clot is known as \_\_\_\_\_
- (12) Which components is required to form a blood clot?
- (13) How do mucous membranes protect the body against microbes?

- (14) Write the full form of DPX.
- (15) Write the name of photoreceptor.
- (16) Eosine is \_\_\_\_\_
- (17) In Human Being the duration of cardiac cycle is \_\_\_\_\_
- (18) Ovulation take place in month during \_\_\_\_\_ day in menstrual cycle.
- (19) Inflammatory response, in allergy, is caused by release of \_\_\_\_\_
- (20) The Balancing organ of ear is \_\_\_\_\_

**2 (A) Write any three out of six : 6**

- (1) Write short note on Haematoxyline
- (2) Hormones of Pancreas
- (3) Single staining techniques
- (4) Write short note on Eosine
- (5) Function of Insulin Hormone
- (6) Explain: Antigen

**(B) Write any three out of six : 9**

- (1) Double Staining Technique
- (2) ECG
- (3) Phonoreceptor
- (4) Haemesythr in & Myoglobin
- (5) Ovarian hormone and it's function
- (6) Allergy

**(C) Write any two out of five : 10**

- (1) Describe hormone of "Posterior Pituitary glands"
- (2) Gustato receptors
- (3) Photo Receptors
- (4) Sex Hormones
- (5) Describe briefly the functions and properties of skeletal muscle

- 3 (A) Write any **three** out of six : **6**
- (1) Draw a neat and clean diagram of human heart
  - (2) Origin of Heart Beat
  - (3) Oestrus Cycle
  - (4) Carnoy's fluid
  - (5) Acetocarmine
  - (6) Hormones and Function of Parathyroid Gland
- (B) Write any **three** out of six : **9**
- (1) Cardiac Cycle
  - (2) Describe Actin and Myosin
  - (3) First line of defense in Innate Immunity
  - (4) Haemoglobin as respiratory pigment
  - (5) Blood Pressure
  - (6) Discuss how heart beats are regulated
- (C) Write any **two** out of five : **10**
- (1) "Transport of CO<sub>2</sub> gases" during respiration
  - (2) Contraction and relaxation of Skeletal Muscle Fibre
  - (3) Write a note on "Anterior Pituitary Gland"
  - (4) Adaptive Immunity
  - (5) Histological Structure of Ovary
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